

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits | Search Query  | DBs  | Default Operator | Plurals | Time Stamp          |
|-------|------|---|--|------------------|---------|---------------------|
| L1    | 0    | {(random with (glass near (sphere bead ball))) and ((reflect\$4 or mirror or deflect \$3) same (focus or converg \$4)) and (observ\$4 near angle)}    | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/05/11<br>16:15 |
| L2    | 0    | {(random same (glass near (sphere bead ball))) and ((reflect\$4 or mirror or deflect \$3) same (focus or converg \$4)) and (observ\$4 near angle)}    | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/05/11<br>16:16 |
| L3    | 0    | {(random with (glass with (sphere bead ball))) and ((reflect\$4 or mirror or deflect \$3) same (focus or converg \$4)) and (observ\$4 near angle)}    | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/05/11<br>16:16 |
| L4    | 0    | {(random same (glass with (sphere bead ball))) and ((reflect\$4 or mirror or deflect \$3) same (focus or converg \$4)) and (observ\$4 near angle)}    | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/05/11<br>16:16 |
| L5    | 0    | {(random same (glass with (sphere bead ball))) and ((reflect\$4 or mirror or deflect \$3) same (focus\$3 or converg \$4)) and (observ\$4 near angle)} | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/05/11<br>16:17 |
| L6    | 1    | 10/567259   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/05/11<br>16:17 |
| L7    | 9    | {(random same (glass with (sphere bead ball))) and ((reflect\$4 or mirror or deflect \$3) same (focus\$3 or converg \$4)) and (observ\$5 near angle)} | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/05/11<br>16:18 |
| S1    | 209  | (359/536).CCL.S.  | US-PGPUB;<br>USPAT; USOCR  | OR               | OFF     | 2007/12/14<br>13:06 |
| S2    | 365  | (359/538-540).CCL.S.  | US-PGPUB;<br>USPAT; USOCR  | OR               | OFF     | 2007/04/18<br>09:25 |

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| S3  | 129    | (359/541).CCL.S.   | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2007/04/18<br>09:26 |
| S4  | 426    | (359/529).CCL.S.   | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2007/04/18<br>09:29 |
| S5  | 79764  | glass with (spher\$4 or ball?<br>or bead?)                     | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/18<br>10:39 |
| S6  | 3006   | (retroreflect\$4 or retro?reflect<br>\$4) same sheet\$3        | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/23<br>08:02 |
| S7  | 572    | S1 or S2 or S3   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/23<br>07:58 |
| S8  | 425350 | (thick\$4 or width or depth)<br>near (surface or top or layer) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/18<br>10:50 |
| S9  | 224    | S5 and S6 and S8   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/18<br>17:19 |
| S10 | 61     | S7 and S9  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/18<br>13:59 |
| S11 | 1      | ("20060256439").JPN.   | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2007/04/18<br>17:20 |
| S12 | 76999  | reflect\$4 near layer  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/18<br>13:17 |
| S13 | 45     | S10 and S12  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/18<br>13:17 |
| S14 | 861422 | random\$4  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/18<br>14:07 |

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| S15 | 580 | S6 and S8   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/18<br>13:59 |
| S16 | 101 | S7 and S15  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/18<br>14:00 |
| S17 | 40  | S16 not S10   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/18<br>14:02 |
| S18 | 218 | S14 and S15   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/18<br>16:52 |
| S19 | 14  | ("3493286" I "4505967" I<br>"4664966" I "4808471" I<br>"5818640" I "5847795"),PN. | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/18<br>14:17 |
| S20 | 6   | ((SHIGEO) near2<br>(YUKAWA)).INV.   | US-PGPUB;<br>USPAT; USOCR  | OR | ON | 2007/04/18<br>15:46 |
| S21 | 42  | ((HIDEYUKI) near2 (OKI)).<br>INV.   | US-PGPUB;<br>USPAT; USOCR  | OR | ON | 2007/04/18<br>14:27 |
| S22 | 1   | ((YOSHITAKA) near2<br>(URA)).INV.   | US-PGPUB;<br>USPAT; USOCR  | OR | ON | 2007/04/23<br>07:58 |
| S23 | 47  | S20 or S21 or S22   | US-PGPUB;<br>USPAT; USOCR  | OR | ON | 2007/04/18<br>14:27 |
| S24 | 0   | KR-0074836-\$.did.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/18<br>16:40 |
| S25 | 0   | KR-74836-\$.did.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/18<br>16:32 |
| S26 | 2   | JP-2002040210-\$.did.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/18<br>16:35 |

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| S27 | 2  | JP-08101304-\$.did.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/18<br>16:35 |
| S28 | 1  | JP-06289207-\$.did.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/18<br>16:36 |
| S29 | 2  | JP-04086701-\$.did.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/18<br>16:36 |
| S30 | 0  | WO-0129587-\$.did.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/18<br>16:37 |
| S31 | 1  | WO-200129587-\$.did.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/18<br>16:39 |
| S32 | 2  | WO-9826313-\$.did.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/18<br>16:39 |
| S33 | 0  | KR-200074836-\$.did.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/18<br>16:40 |
| S34 | 1  | KR-2000074836-\$.did.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/18<br>16:41 |
| S35 | 23 | S24 or S25 or S26 or S27 or<br>S28 or S29 or S30 or S31 or<br>S32 or S19 | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/18<br>16:42 |
| S36 | 97 | S18 and S5   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/18<br>16:53 |

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| S37 | 19  | S10 and S14  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/18<br>16:58 |
| S38 | 4   | (US-20030151815-S).did. or<br>(US-5706132-\$ or US-<br>6350036-S).did. or (US-<br>3493286-S).did.                        | US-PGPUB;<br>USPAT; USOCR  | OR | ON  | 2007/04/18<br>17:05 |
| S39 | 5   | (US-20030151815-S).did. or<br>(US-5706132-\$ or US-<br>6350036-\$ or US-6365262-S).<br>did. or (US-3493286-S).did.       | US-PGPUB;<br>USPAT; USOCR  | OR | ON  | 2007/04/18<br>17:13 |
| S40 | 1   | S39 and focus\$4   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/18<br>17:13 |
| S41 | 1   | S39 and focus\$4   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/18<br>17:14 |
| S42 | 48  | S36 and focus\$4   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/18<br>17:14 |
| S43 | 8   | S37 and focus\$4   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/18<br>17:14 |
| S44 | 1   | S11 and "focusing layer"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/18<br>17:21 |
| S45 | 7   | ((("5706132") or ("5770124")<br>or ("5508084") or<br>("5558740") or ("5629790")<br>or ("5486944") or<br>("6226126")).PN. | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2007/04/19<br>17:37 |
| S46 | 209 | (359/536).CCLS.  | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2007/04/23<br>07:58 |
| S47 | 365 | (359/538-540).CCLS.  | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2007/04/23<br>07:58 |
| S48 | 129 | (359/541).CCLS.  | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2007/04/23<br>07:58 |
| S49 | 426 | (359/529).CCLS.  | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2007/04/23<br>07:58 |

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| S50 | 964     | \$46 or \$47 or \$48 or \$49  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/23<br>08:03 |
| S51 | 1050930 | random\$4 or non?uniform\$4<br>or nonuniform\$4 or dispurs\$4   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/23<br>08:00 |
| S52 | 74257   | nonisotropic\$4 or non?<br>isotropic\$4 or isotropic\$4   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/23<br>08:01 |
| S53 | 2449726 | nonisotropic\$4 or non?<br>isotropic\$4 or isotropic\$4 or<br>distribut\$4  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/23<br>08:01 |
| S54 | 79843   | glass with (spher\$4 or ball?<br>or bead?)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/23<br>08:40 |
| S55 | 15462   | retroreflect\$4 or retro?reflect<br>\$4   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/23<br>08:02 |
| S56 | 351     | S50 and S54   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/23<br>08:41 |
| S57 | 148     | S56 and (S51 or S53)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/23<br>08:41 |
| S58 | 8       | (US-20030151815-\$).did. or<br>(US-5706132-\$ or US-<br>6350036-\$ or US-6365262-\$).<br>did. or (US-3493286-\$ or US-<br>2275597-\$ or US-2897733-\$<br>or US-3030870-\$).did. | US-PGPUB;<br>USPAT; USOCR  | OR | ON | 2007/04/23<br>08:11 |
| S59 | 7       | S58 and back\$3   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/23<br>08:22 |

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|-----|--------|--|--|----|----|---------------------|
| S60 | 6      | S58 and (aluminum or copper or metal)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/23<br>08:25 |
| S61 | 7      | S58 and (aluminum or copper or metal\$4)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/23<br>08:34 |
| S62 | 7      | S59 and S61  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/23<br>08:34 |
| S63 | 98     | S54 and S55 and S56 and (S51 or S53)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/23<br>08:39 |
| S64 | 0      | S63 not S57  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/23<br>08:40 |
| S65 | 998237 | spher\$4 or ball? or bead?   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/23<br>08:40 |
| S66 | 492    | S50 and S65  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/23<br>08:41 |
| S67 | 218    | S66 and (S51 or S53)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/23<br>08:41 |
| S68 | 70     | S67 not S57  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/23<br>08:42 |
| S69 | 11     | (US-20030151815-\$).did. or (US-5706132-\$ or US-6350036-\$ or US-6365262-\$ or US-6333817-\$ or US-6560023-\$ or US-6700707-\$).did. or (US-3493286-\$ or US-2275597-\$ or US-2897733-\$ or US-3030870-\$).did. | US-PGPUB;<br>USPAT; USOCR  | OR | ON | 2007/04/23<br>09:08 |

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| S70 | 9  | S69 and (wt or weight)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/23<br>09:21 |
| S71 | 7  | ((("5706132") or ("5770124")<br>or ("5508084") or<br>("5558740") or ("5629790")<br>or ("5486944") or<br>("6226126")).PN. | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2007/04/23<br>09:21 |
| S72 | 4  | S71 and (wt or weight)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/23<br>10:12 |
| S73 | 2  | S71 and (refract\$4 adj index)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/23<br>10:13 |
| S74 | 17 | S69 or S71   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/23<br>10:21 |
| S75 | 9  | S74 and (refract\$4 adj index)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/23<br>10:13 |
| S76 | 14 | ("3493286"   "4505967"  <br>"4664966"   "4808471"  <br>"5818640"   "5847795").PN.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/23<br>10:22 |
| S77 | 30 | S69 or S71 or S76  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/23<br>10:35 |
| S78 | 21 | S77 and glass  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/23<br>13:09 |
| S79 | 9  | S77 and S54  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/23<br>13:09 |



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| S80 | 7    | ((("5706132") or ("5770124") or ("5508084") or ("5558740") or ("5629790") or ("5486944") or ("6226126")).PN.  | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2007/04/24<br>10:23 |
| S81 | 4    | S80 and copolymer   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/24<br>10:25 |
| S82 | 209  | (359/536).CCL.S.  | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2007/04/24<br>10:28 |
| S83 | 365  | (359/538-540).CCL.S.  | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2007/04/24<br>10:28 |
| S84 | 129  | (359/541).CCL.S.  | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2007/04/24<br>10:28 |
| S85 | 426  | (359/529).CCL.S.  | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2007/04/24<br>10:28 |
| S86 | 964  | S82 or S83 or S84 or S85  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/24<br>10:28 |
| S87 | 312  | (S80 or S86) and (polyvinyl or amino or toluene or xylene)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/24<br>11:25 |
| S88 | 3007 | (retroreflect\$4 or retro?reflect \$4) same sheet\$3  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/24<br>10:29 |
| S89 | 218  | S87 and S88   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/24<br>10:29 |
| S90 | 4    | (S80) and (polyvinyl or amino or toluene or xylene)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/24<br>10:32 |
| S91 | 8    | ((US-20030151815-S).did. or (US-5706132-\$ or US-6350036-\$ or US-6365262-\$).did. or (US-3493286-\$ or US-2275597-\$ or US-2897733-\$ or US-3030870-\$).did. | US-PGPUB;<br>USPAT; USOCR  | OR | ON  | 2007/04/24<br>10:36 |

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|------|-------|---|--|----|----|---------------------|
| S92  | 3     | (S80 or S91) and (polyvinyl near2 (acetal or butyral))              | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/24<br>10:38 |
| S93  | 0     | (S80 or S91) and ((polyvinyl near2 (acetal or butyral)) near amino) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/24<br>10:39 |
| S94  | 0     | (S86) and ((polyvinyl near2 (acetal or butyral)) near amino)        | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/24<br>11:04 |
| S95  | 79885 | glass with (spher\$4 or ball? or bead?)                             | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/24<br>10:41 |
| S96  | 176   | (S86) and (S95) and ((ang\$3 or angular\$2) with reflect\$4)        | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/24<br>10:55 |
| S97  | 265   | (S86) and (S95) and (diameter)                                      | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/24<br>10:56 |
| S98  | 1     | (S86) and ((polyvinyl near2 acetal) near resin)                     | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/24<br>11:05 |
| S99  | 5     | (S80 or S86) and (degree near polymerization)                       | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/24<br>11:10 |
| S100 | 351   | (S80 or S86) and (S95)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/24<br>11:11 |
| S101 | 15    | S100 and (weight with resin with S95)                               | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/24<br>11:12 |

|      |      |   |  |    |     |                     |
|------|------|---|--|----|-----|---------------------|
| S102 | 13   | {(US-20030151815-\$).did. or (US-5706132-\$ or US-6350036-\$ or US-6365262-\$ or US-5847795-\$ or US-6333817-\$).did. or (US-3493286-\$ or US-2275597-\$ or US-3030870-\$ or US-2897733-\$ or US-3014409-\$ or US-3204537-\$ or US-2937668-\$).did. | US-PGPUB;<br>USPAT; USOCR  | OR | ON  | 2007/04/24<br>11:16 |
| S103 | 10   | S102 and weight   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/24<br>11:21 |
| S104 | 354  | (S102 or S100)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/24<br>11:21 |
| S105 | 8    | S104 and (anti?foam\$3 or anti?foam\$4)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/24<br>11:21 |
| S106 | 0    | (S80 or S86) and (alkyl?vinyl? ether or alkyl?vinylether)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/24<br>11:27 |
| S107 | 2    | (S80 or S86) and (fluoro? olefin or fluoroolefin)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/24<br>11:28 |
| S108 | 1    | ("20060256439").PN.   | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2007/04/27<br>07:30 |
| S109 | 1    | ("5620775").PN.   | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2007/04/25<br>16:10 |
| S110 | 1382 | high near2 refractive adj index near glass  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/25<br>16:11 |
| S111 | 1491 | high near2 (refractive adj index) near glass  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/25<br>16:10 |

|      |        |  |  |    |     |                     |
|------|--------|--|--|----|-----|---------------------|
| S112 | 2386   | high near2 (refractive adj index) near2 glass  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/25<br>16:11 |
| S113 | 79885  | glass with (spher\$4 or ball? or bead?)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/25<br>17:15 |
| S114 | 231    | S110 and S113  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/25<br>17:12 |
| S115 | 869    | {40/612}.CCLS.   | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2007/04/25<br>17:13 |
| S116 | 15     | S113 and S115  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/25<br>17:13 |
| S117 | 49945  | microspher\$4 or micro?spher\$4  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/25<br>17:16 |
| S118 | 123871 | S113 or S117   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/25<br>17:16 |
| S119 | 18     | S115 and S118  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/25<br>17:16 |
| S120 | 15     | {(US-20030112519-\$ or US-20030151815-\$).did. or (US-6190757-\$ or US-5706132-\$ or US-6350036-\$ or US-6365262-\$ or US-5847795-\$ or US-6333817-\$).did. or {(US-3014409-\$ or US-3493286-\$ or US-3030870-\$ or US-2275597-\$ or US-2897733-\$ or US-3204537-\$ or US-2937668-\$).did. | US-PGPUB;<br>USPAT; USOCR  | OR | ON  | 2007/04/26<br>07:14 |
| S121 | 1      | ("5008142").PN.  | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2007/04/26<br>07:29 |

|      |       |                                 |  |    |     |                     |
|------|-------|---------------------------------|--|----|-----|---------------------|
| S122 | 66207 | degree near2 polymerization     | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/26<br>07:29 |
| S123 | 16    | S120 or S121                    | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/26<br>07:30 |
| S124 | 0     | S122 and S123                   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/26<br>07:30 |
| S125 | 209   | (359/536).CCLS.                 | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2007/04/26<br>07:30 |
| S126 | 365   | (359/538-540).CCLS.             | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2007/04/26<br>07:30 |
| S127 | 129   | (359/541).CCLS.                 | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2007/04/26<br>07:30 |
| S128 | 426   | (359/529).CCLS.                 | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2007/04/26<br>07:30 |
| S129 | 964   | S125 or S126 or S127 or<br>S128 | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/26<br>07:30 |
| S130 | 4     | S122 and S129                   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/26<br>07:30 |
| S131 | 1     | S123 and (weight near resin)    | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/26<br>07:36 |
| S132 | 6     | S123 and (alkyd)                | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/04/26<br>07:36 |

|      |         |   |  |    |     |                     |
|------|---------|---|--|----|-----|---------------------|
| S133 | 16      | (US-20030112519-\$ or US-20030151815-\$).did. or (US-5706132-\$ or US-6190757-\$ or US-6365262-\$ or US-6350036-\$ or US-5847795-\$ or US-6333817-\$ or US-5008142-\$).did. or (US-3493286-\$ or US-3014409-\$ or US-3030870-\$ or US-2897733-\$ or US-3204537-\$ or US-2937668-\$ or US-2275597-\$).did. | US-PGPUB;<br>USPAT; USOCR  | OR | ON  | 2007/04/27<br>09:52 |
| S134 | 4       | (US-6365262-\$ or US-6333817-\$).did. or (US-3014409-\$ or US-3204537-\$).did.  | USPAT; USOCR   | OR | ON  | 2007/04/27<br>09:53 |
| S135 | 869     | (40/612).CCLS.  | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2007/04/27<br>10:01 |
| S136 | 1       | ("20060256439").PN.   | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2007/12/14<br>13:06 |
| S137 | 1       | ("20060256439").PN.   | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2007/12/14<br>16:34 |
| S138 | 1       | S137 and (cheap\$2 or economy or economic\$4 or cost\$3)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/12/14<br>16:35 |
| S139 | 88566   | glass with (spher\$4 or ball? or bead?)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/04<br>09:59 |
| S140 | 3708445 | angl\$4 or angular\$4   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/04<br>10:02 |
| S141 | 17003   | (retroreflect\$4 or retro?reflect \$4)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/04<br>10:05 |
| S142 | I213    | S139 and S140 and S141  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/04<br>10:05 |
| S143 | 838     | S142 and sheet  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/04<br>10:11 |

|      |        |  |  |    |     |                     |
|------|--------|--|--|----|-----|---------------------|
| S144 | 883    | (40/612).CCL.S.  | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2008/06/04<br>10:12 |
| S145 | 142037 | "359".clas.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/04<br>10:12 |
| S146 | 142863 | S144 or S145   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/04<br>10:12 |
| S147 | 363    | S143 and S146  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/04<br>10:12 |
| S148 | 12     | (US-20030165016-S).did. or<br>(US-6333817-\$ or US-<br>6365262-\$ or US-4231830-\$<br>or US-4505967-\$ or US-<br>6076933-\$ or US-6966660-\$).<br>did. or (US-3204537-\$ or US-<br>3014409-\$ or US-2948191-\$<br>or US-3254563-\$ or US-<br>3420597-\$).did.  | US-PGPUB;<br>USPAT; USOCR  | OR | ON  | 2008/06/04<br>13:17 |
| S149 | 245    | ("2043414"   "2326634"  <br>"2354018"   "2354048"  <br>"2407680"   "2440584"  <br>"2592882"   "3043196"  <br>"3175935"   "3252376"  <br>"3254563"   "3274888"  <br>"3413058"   "3418896"  <br>"3486952"   "3556637"  <br>"3702213"   "3709706"  <br>"3795435"   "3849351"  <br>"3891451"   "3894791"  <br>"3935158"   "3958891"  <br>"3989775"   "4030958"  <br>"4055377"   "4072403"  <br>"4075049"   "4082426"  <br>"4102562"   "4104102"  <br>"4117192"   "4145112"  <br>"4166147"   "4203878"  <br>"4226658"   "4248932"  <br>"4348312"   "4367920"  <br>"4377988"   "4388359"  <br>"4411553"   "4490432"  <br>"4505967"   "4511210"  <br>"4564556"   "4569857"  <br>"4618525"   "4648932"  <br>"4652172"   "4664966"  <br>"4678695"   "4681401"  <br>"4682852"   "4758469"  <br>"4767659"   "4772511" | US-PGPUB;<br>USPAT; USOCR  | OR | ON  | 2008/06/04<br>13:17 |

|      |     |   |                           |    |                  |                     |
|------|-----|---|---------------------------|----|------------------|---------------------|
|      |     | "4875798" I "4937127" I<br>"4950525" I "4969713" I<br>"4983458" I "4988541" I<br>"4988555" I "5008142" I<br>"5053253" I "5077117" I<br>"5087148" I "5094902" I<br>"5108218" I "5114193" I<br>"5124178" I "5139590" I<br>"5207852" I "5227221" I<br>"5268789" I "5316406" I<br>"5316838" I "5417515" I<br>"5478596" I "5550657" I<br>"5557461" I "5563738" I<br>"5571362" I "5620775" I<br>"5643655" I "5667334" I<br>"5667335" I "5670227" I<br>"5676488" I "5706134" I<br>"5750191" I "5759928" I<br>"5774265" I "5777791" I<br>"5781344" I "5812317" I<br>"5814932" I "5822120" I<br>"5917652" I "6111699" I<br>"6247818" I "6479132").PN.<br>OR ("2003/0165016" I<br>"2948191" I "3014409" I<br>"3204537" I "3254563" I<br>"3420597" I "4231830" I<br>"4505967" I "6076933" I<br>"6333817" I "6365262" I<br>"6966660").URPN. |                           |    |                  |                     |
| S150 | 17  | {(US-20030165016-S).did. or<br>(US-6333817-\$ or US-<br>6365262-\$ or US-4231830-\$<br>or US-4505967-\$ or US-<br>6076933-\$ or US-6966660-\$<br>or US-2326634-\$ or US-<br>4950525-\$ or US-4978298-\$<br>or US-5650213-\$ or US-<br>5706134-S).did. or (US-<br>3204537-\$ or US-3014409-\$<br>or US-2948191-\$ or US-<br>3254563-\$ or US-3420597-\$).<br>did.  | US-PGPUB;<br>USPAT; USOCR | OR | ON               | 2008/06/04<br>14:01 |
| S151 | 215 | (359/536).CCLS.   | US-PGPUB;<br>USPAT; USOCR | OR | OFF <sup>2</sup> | 2008/06/09<br>09:56 |
| S152 | 370 | (359/538-540).CCLS.   | US-PGPUB;<br>USPAT; USOCR | OR | OFF <sup>2</sup> | 2008/06/09<br>09:56 |
| S153 | 132 | (359/541).CCLS.   | US-PGPUB;<br>USPAT; USOCR | OR | OFF <sup>2</sup> | 2008/06/09<br>09:56 |
| S154 | 447 | (359/529).CCLS.   | US-PGPUB;<br>USPAT; USOCR | OR | OFF <sup>2</sup> | 2008/06/09<br>09:56 |



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|------|--------|---|--|----|-----|---------------------|
| S155 | 991    | S151 or S152 or S153 or S154  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/09<br>09:56 |
| S156 | 88668  | glass with (spher\$4 or ball? or bead?)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/09<br>10:03 |
| S158 | 356    | S155 and S156   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/09<br>10:04 |
| S161 | 57     | {("3702213"   "3795435"   "4104102"   "4226658"   "4348312"   "4367920"   "4377988").PN. OR ("4505967").URIPN.  | US-PGPUB;<br>USPAT; USOCR  | OR | ON  | 2008/06/09<br>10:43 |
| S162 | 2      | ((("6966660") or ("6479132")).PN.   | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2008/06/09<br>11:34 |
| S163 | 26     | (US-20030165016-S).did. or (US-6333817-S or US-6365262-S or US-4231830-S or US-4505967-S or US-6076933-S or US-6966660-S or US-2326634-S or US-4950525-S or US-4978298-S or US-5650213-S or US-5706134-S or US-4293189-S or US-6350036-S or US-6479132-S).did. or (US-3204537-S or US-3014409-S or US-2948191-S or US-3254563-S or US-3420597-S or US-2330843-S or US-2713286-S or US-2897733-S or US-3030870-S or US-3253146-S or US-3496006-S).did. | US-PGPUB;<br>USPAT; USOCR  | OR | ON  | 2008/06/09<br>12:28 |
| S164 | 857186 | @pd>="20071215"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/09<br>12:29 |
| S165 | 9      | S155 and S164   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/09<br>12:29 |
| S166 | 1      | ("3795435").PN.   | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2008/06/12<br>14:29 |

|      |    |  |  |    |     |                     |
|------|----|--|--|----|-----|---------------------|
| S167 | 3  | ((("3795435") or ("4808471") or ("5847795")).PN.   | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2008/06/12<br>14:36 |
| S168 | 26 | (US-20030165016-S).did. or<br>(US-6333817-\$ or US-<br>6365262-\$ or US-4231830-\$<br>or US-4505967-\$ or US-<br>6076933-\$ or US-6966660-\$<br>or US-2326634-\$ or US-<br>4950525-\$ or US-4978298-\$<br>or US-5650213-\$ or US-<br>5706134-\$ or US-4293189-\$<br>or US-6350036-\$ or US-<br>6479132-S).did. or (US-<br>3204537-\$ or US-3014409-\$<br>or US-2948191-\$ or US-<br>3254563-\$ or US-3420597-\$<br>or US-2330843-\$ or US-<br>2713286-\$ or US-2897733-\$<br>or US-3030870-\$ or US-<br>3253146-\$ or US-3496006-S).<br>did. | US-PGPUB;<br>USPAT; USOCR  | OR | ON  | 2008/06/12<br>15:43 |
| S169 | 26 | (US-20030165016-S).did. or<br>(US-6333817-\$ or US-<br>6365262-\$ or US-4231830-\$<br>or US-4505967-\$ or US-<br>6076933-\$ or US-6966660-\$<br>or US-2326634-\$ or US-<br>4950525-\$ or US-4978298-\$<br>or US-5650213-\$ or US-<br>5706134-\$ or US-4293189-\$<br>or US-6350036-\$ or US-<br>6479132-S).did. or (US-<br>3204537-\$ or US-3014409-\$<br>or US-2948191-\$ or US-<br>3254563-\$ or US-3420597-\$<br>or US-2330843-\$ or US-<br>2713286-\$ or US-2897733-\$<br>or US-3030870-\$ or US-<br>3253146-\$ or US-3496006-S).<br>did. | US-PGPUB;<br>USPAT; USOCR  | OR | ON  | 2008/06/13<br>08:36 |
| S170 | 2  | (US-4505967-\$ or US-<br>6479132-S).did.   | USPAT  | OR | ON  | 2008/06/13<br>11:41 |
| S171 | 1  | S170 and sign  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/13<br>11:41 |

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|------|---------|--|--|----|-----|---------------------|
| S172 | 26      | {(US-20030165016-S).did. or (US-6333817-\$ or US-6365262-\$ or US-4231830-\$ or US-4505967-\$ or US-6076933-\$ or US-6966660-\$ or US-2326634-\$ or US-4950525-\$ or US-4978298-\$ or US-5650213-\$ or US-5706134-\$ or US-4293189-\$ or US-6350036-\$ or US-6479132-S).did. or (US-3204537-\$ or US-3014409-\$ or US-2948191-\$ or US-3254563-\$ or US-3420597-\$ or US-2330843-\$ or US-2713286-\$ or US-2897733-\$ or US-3030870-\$ or US-3253146-\$ or US-3496006-\$).did. | US-PGPUB;<br>USPAT; USOCR  | OR | ON  | 2008/06/16<br>08:55 |
| S173 | 11      | S172 and focus\$4  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/16<br>09:44 |
| S174 | 2       | ((("6479132") or ("4505967")).PN.  | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2008/06/16<br>09:45 |
| S175 | 1       | S174 and focus\$4  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/16<br>09:45 |
| S176 | 1       | S174 and (refractive near index)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/16<br>10:46 |
| S177 | 2       | S174 and (diameter)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/06/16<br>11:07 |
| S178 | 1264161 | @pd>="20080601"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/01/12<br>17:10 |
| S179 | 215     | (359/536).CCLS.  | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2009/01/12<br>17:11 |
| S180 | 371     | (359/538-540).CCLS.  | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2009/01/12<br>17:11 |
| S181 | 132     | (359/541).CCLS.  | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2009/01/12<br>17:11 |

|      |         |                                       |  |    |     |                     |
|------|---------|---------------------------------------|--|----|-----|---------------------|
| S182 | 461     | (359/529).CCLS.                       | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2009/01/12<br>17:11 |
| S183 | 1006    | S179 or S180 or S181 or<br>S182       | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/01/12<br>17:11 |
| S184 | 15      | S183 and S178                         | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/01/12<br>17:11 |
| S185 | 2496206 | @pd>="20080601"                       | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/06/19<br>09:55 |
| S186 | 215     | (359/536).CCLS.                       | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2009/06/19<br>09:55 |
| S187 | 372     | (359/538-540).CCLS.                   | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2009/06/19<br>09:55 |
| S188 | 132     | (359/541).CCLS.                       | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2009/06/19<br>09:55 |
| S189 | 474     | (359/529).CCLS.                       | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2009/06/19<br>09:55 |
| S190 | 1019    | S186 or S187 or S188 or<br>S189       | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/06/19<br>09:55 |
| S191 | 27      | S190 and S185                         | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/06/19<br>09:55 |
| S192 | 941745  | @pd>="20090101"                       | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/06/19<br>09:55 |
| S193 | 12      | S191 and S192                         | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/06/19<br>09:56 |
| S194 | 2       | ((("4678293") or ("5076700")).<br>PN. | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2009/06/19<br>10:14 |
| S195 | 2       | ((("4505967") or ("6479132")).<br>PN. | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2009/12/11<br>14:12 |
| S196 | 2       | ((("4505967") or ("6479132")).<br>PN. | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2009/12/14<br>10:52 |

|      |         |                                       |  |    |     |                     |
|------|---------|---------------------------------------|--|----|-----|---------------------|
| S197 | 2       | angle and S196                        | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/12/14<br>10:55 |
| S198 | 2       | ((("4505967") or ("6479132")).<br>PN. | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2009/12/22<br>16:35 |
| S199 | 2       | angle and S198                        | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/12/22<br>16:36 |
| S200 | 4883848 | @pd>="20080601"                       | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2010/05/11<br>13:55 |
| S201 | 216     | (359/536).CCLS.                       | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2010/05/11<br>13:55 |
| S202 | 372     | (359/538-540).CCLS.                   | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2010/05/11<br>13:55 |
| S203 | 132     | (359/541).CCLS.                       | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2010/05/11<br>13:55 |
| S204 | 485     | (359/529).CCLS.                       | US-PGPUB;<br>USPAT; USOCR  | OR | OFF | 2010/05/11<br>13:55 |
| S205 | 1031    | S201 or S202 or S203 or<br>S204       | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2010/05/11<br>13:55 |
| S206 | 39      | S205 and S200                         | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2010/05/11<br>13:55 |
| S207 | 3495469 | @pd>="20090101"                       | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2010/05/11<br>13:55 |
| S208 | 24      | S206 and S207                         | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2010/05/11<br>13:55 |
| S209 | 942775  | @pd>="20091215"                       | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2010/05/11<br>13:56 |

|      |    |  |  |    |    |                     |
|------|----|--|--|----|----|---------------------|
| S210 | 4  | S208 and S209  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/05/11<br>13:56 |
| S211 | 27 | (US-20030165016-\$).did. or<br>(US-6333817-\$ or US-<br>6365262-\$ or US-4231830-\$<br>or US-4505967-\$ or US-<br>6076933-\$ or US-6966660-\$<br>or US-2326634-\$ or US-<br>4950525-\$ or US-4978298-\$<br>or US-5650213-\$ or US-<br>5706134-\$ or US-4293189-\$<br>or US-6350036-\$ or US-<br>6479132-\$ or US-7425075-\$).<br>did. or (US-3204537-\$ or US-<br>3014409-\$ or US-2948191-\$<br>or US-3254563-\$ or US-<br>3420597-\$ or US-2330843-\$<br>or US-2713286-\$ or US-<br>2897733-\$ or US-3030870-\$<br>or US-3253146-\$ or US-<br>3496006-\$).did. | US-PGPUB;<br>USPAT; USOCR  | OR | ON | 2010/05/11<br>14:28 |

## EAST Search History (Interference)

| Ref # | Hits | Search Query   | DBs         | Default Operator | Plurals | Time Stamp       |
|-------|------|--|-------------|------------------|---------|------------------|
| L8    | 2    | (random same (glass with<br>(sphere bead ball))) and ((reflect<br>\$4 or mirror or deflect\$3) same<br>(focus\$3 or converg\$4)) and<br>(observ\$5 near angle) | USPAT; UPAD | OR               | ON      | 2010/05/11 16:53 |

5/11/2010 4:53:39 PM

C:\Documents and Settings\jdoak\My Documents\EAST\Workspaces\10567259 - Retroreflect-spheres -  
Yukawa2.wsp